

METHOD FOR PRODUCING A POLYMERIC MATERIAL POWDER AND DEVICE FOR CARRYING OUT SAID METHOD (VARIANTS)

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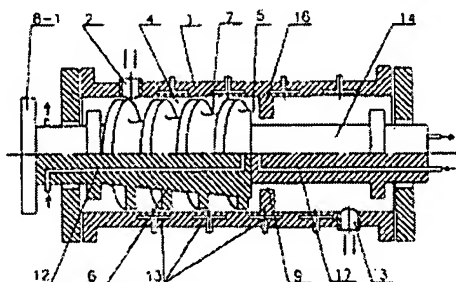
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The inventive method for producing a polymeric material powder consists in compressing said material by shearing the material during a pressure increase and cooling. Consecutive breakdown is carried out by shearing the material during the pressure decrease and cooling, and also during flashing at a rate ranging from 3×10^{-3} to 1×10^{-1} m/sec. into a medium having a pressure ranging from 0.01 to 0.15 MPa. The inventive device comprises a cylindrical body (1) provided with a loading and unloading orifices (2,3). A packing chamber (4) provided with compressing means (6, 15) arranged therein and a chopper chamber (5) provided with a rotatable reducing element arranged therein are successively mounted inside the body (1). Said reducing element represents a flap valve (10) embodied in the form of a disc or a taped cone, or in the form of a disc and a taped cone which are coaxially assembled. In the second embodiment, the reducing element represents a flap valve (16) embodied in the form of a collar arranged on the inner surface of the body (1). The inventive device is provided with means for cooling the shell of the packing chamber (4) and/or means (12) for cooling the compressing means, and also with means for cooling the reducing element (11) and/or means for cooling the shell of the chopper chamber (5).



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